



TP series

Bill Acceptor Installation Guide



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1.Introduction

1-1. Overview

TP series is a new generation of bill acceptor which features High-security with acceptance rate up to 96%. In addition,multiple bezel and bill box selections offer users the most convenient and complete services.

1-2. Features

- Four ways bill insertion acceptance
- Hight acceptance rate
- Multiple bezel selections
- Stacker with capacity of 500 bill are available
- High security by protective mechanism

2.Specifications

General

Acceptance Rate

96% or greater

*Note : The Incomplete bills such as extremely dirty,
wet,broken,or wrinkled ones are excluded.

Transaction Time

Approx. 3 seconds to stack

Approx. 2 seconds without stacking

Interface

Pulse , RS232

Installation

Indoor

Bill Insertion

Four way acceptable

Electrical

Power Source

12V DC (11.4~12.6V DC)

Operation Environment

Operation Temperature: 0℃~55℃

Storage Temperature: -20℃~70℃

Power Consumption

Standby: 0.21A~0.35A(2.5W~4.2W)

Operation Current: 2A,24W

Motor Lock: 2.2A,26.4W

Humidity: 30%~85%RH

(no condensation)

Mechanical

Weight

0.65~0.75kg (Stackerless)

1.5~1.65kg (With Stacker)

Bill Box Capacity

P5 : Approx. 500 bills

Outline Dimension

TP70/P5: Refer to page. 3

TP77/P5: Refer to page. 4

Bill Accepted Width

TP70/P5: 62mm~70mm

TP77/P5: 66mm~77mm

3. Packing List

Main

Accessory

Bill Acceptor

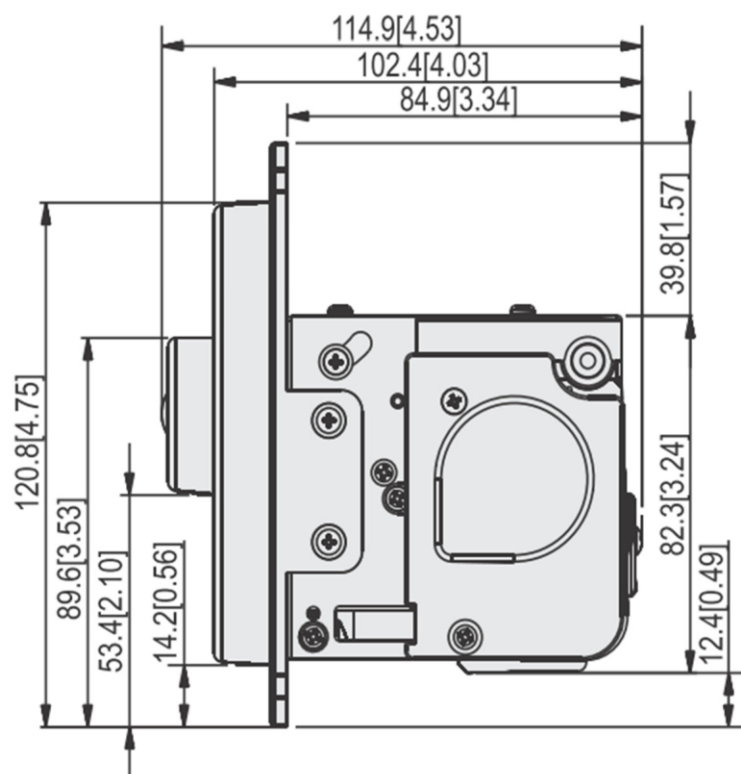
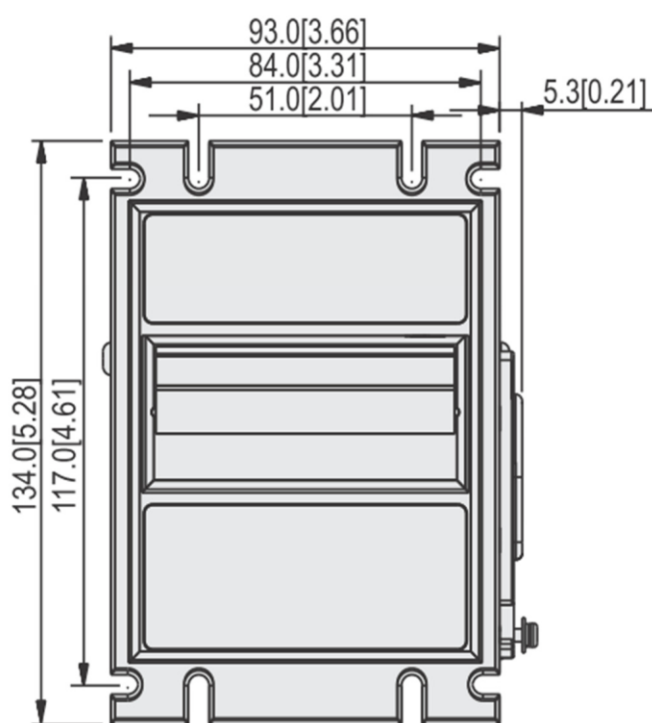
Hames: Refer to 5-1

TP Series Installation Guide

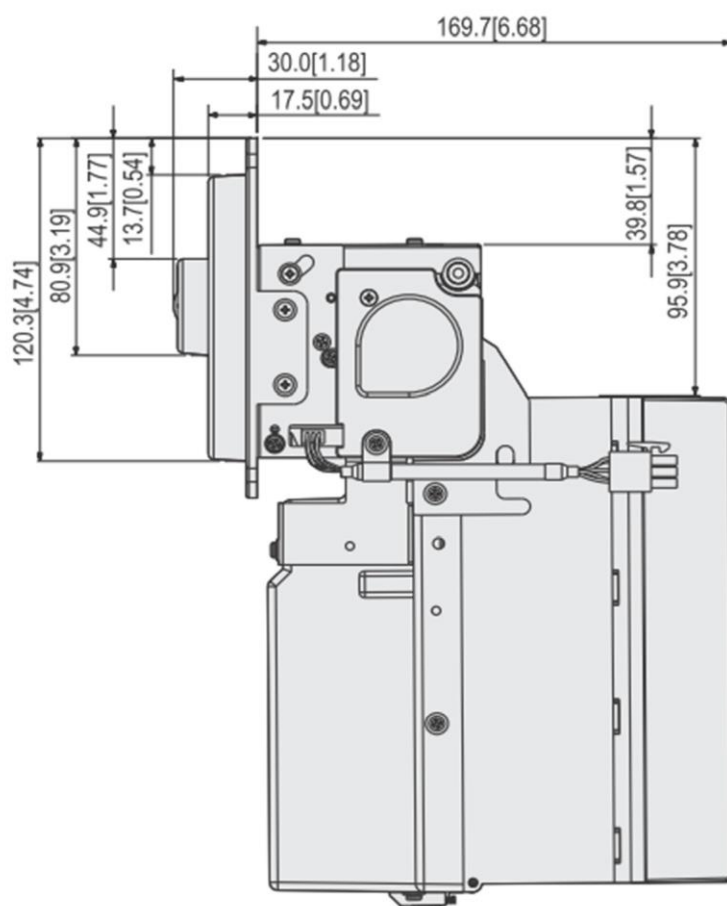
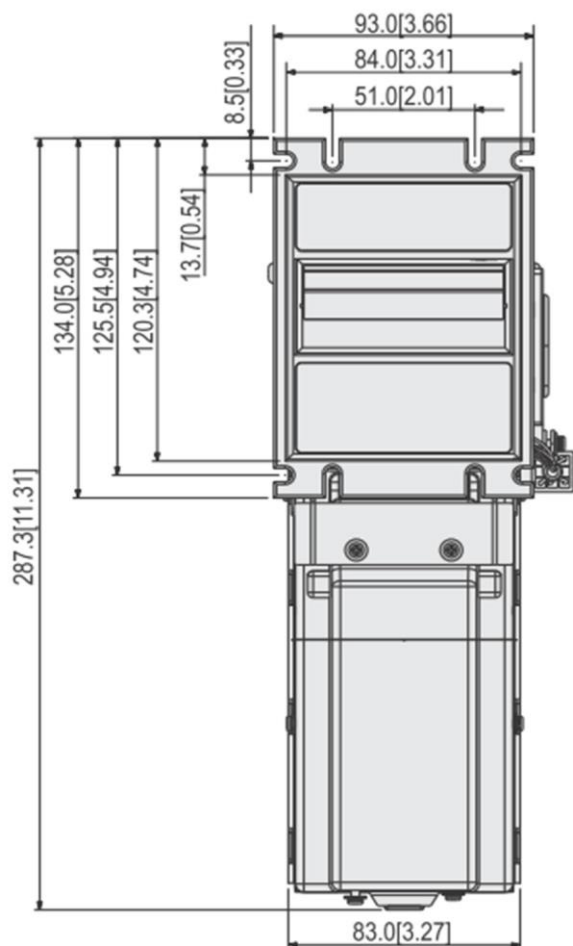
TP Deries DIP Switch Setting Guide

4. Dimension

TP70 (Unit: mm)

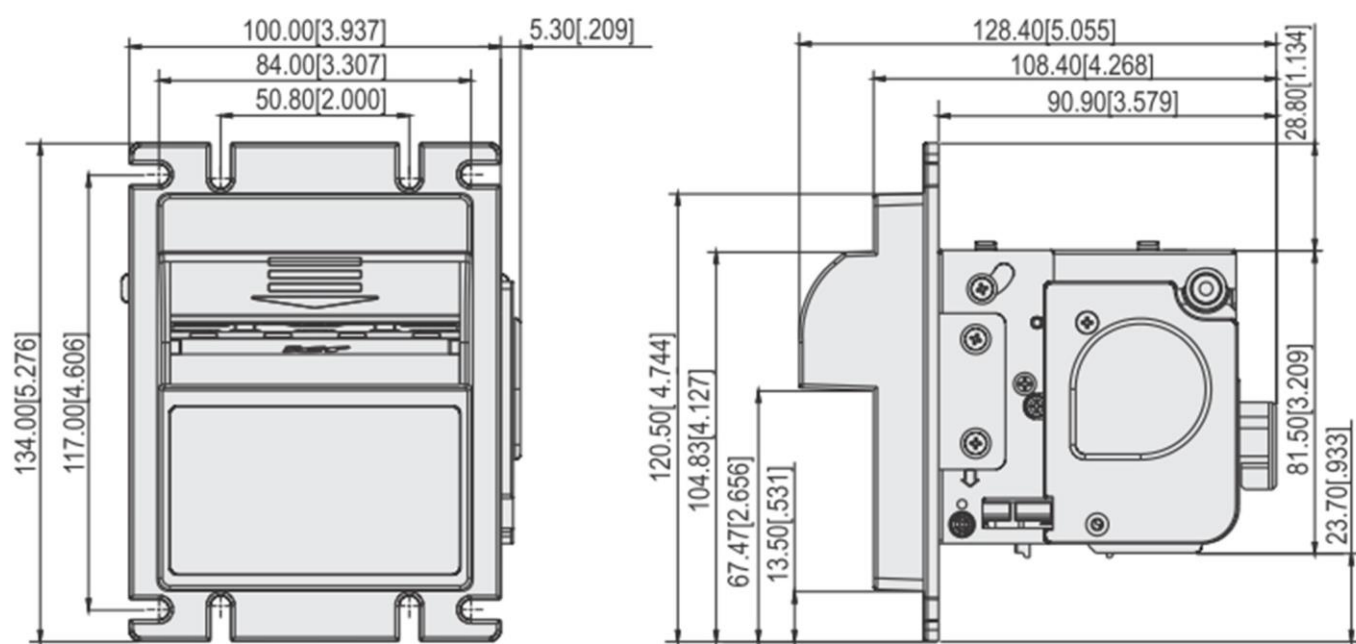


TP70P5 (Unit: mm)



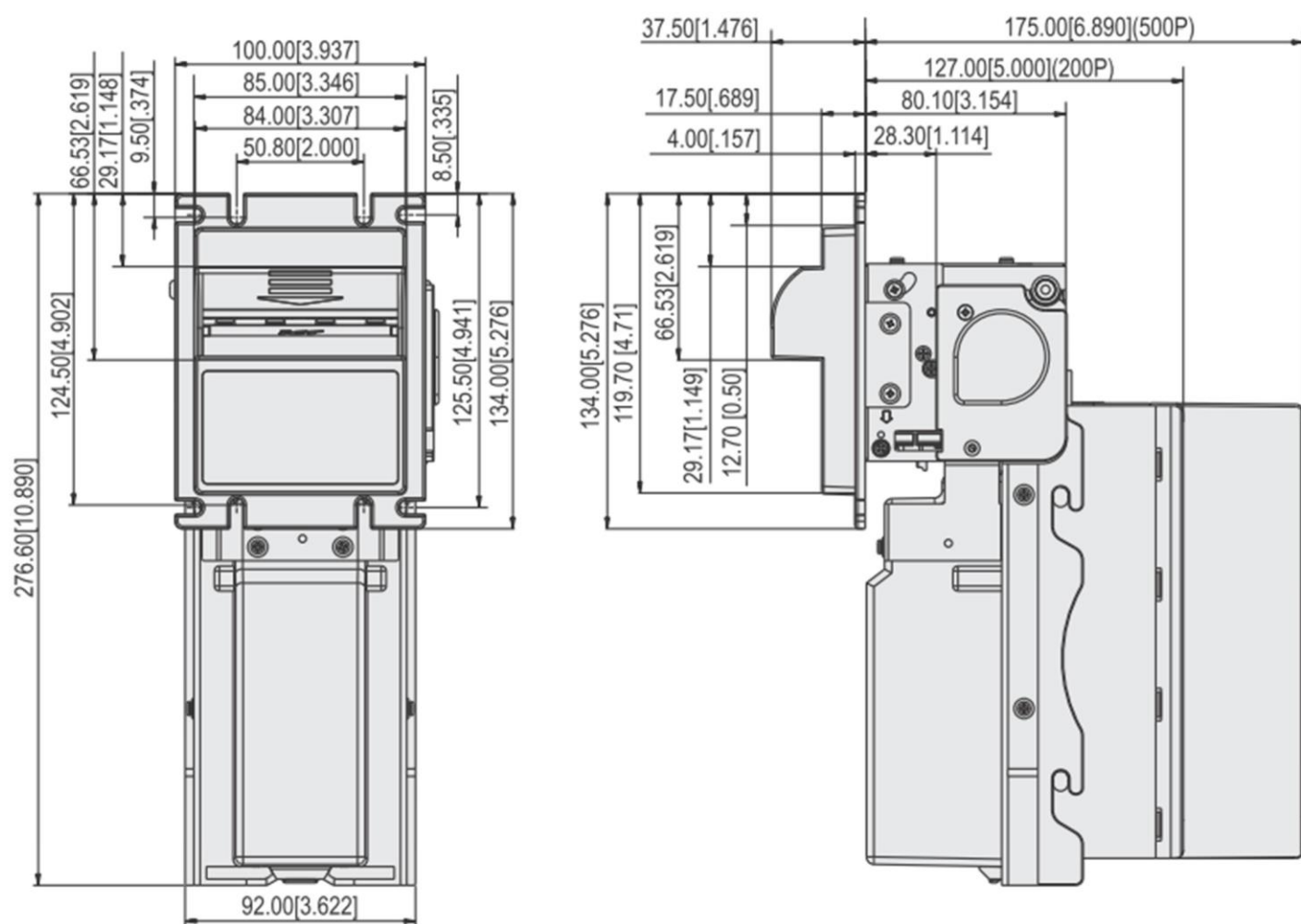
Unit:mm[inch]

TP77



Unit:mm[inch]

TP77P5

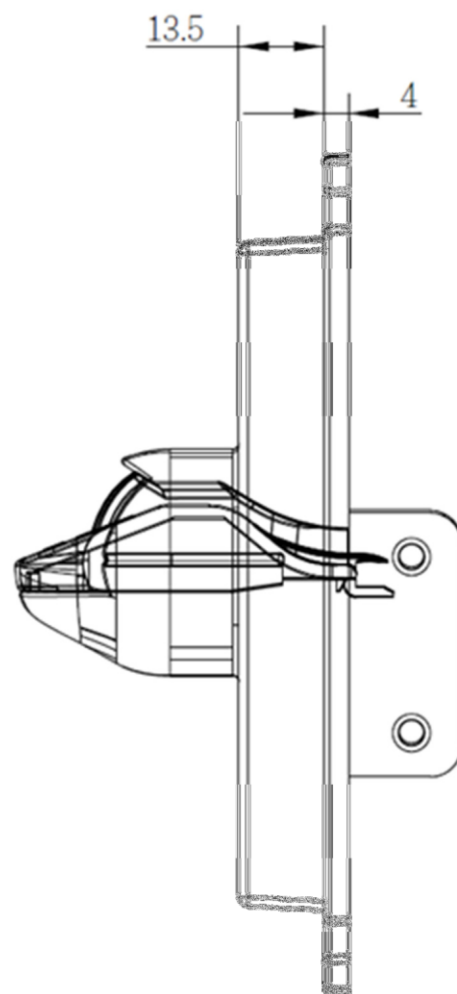
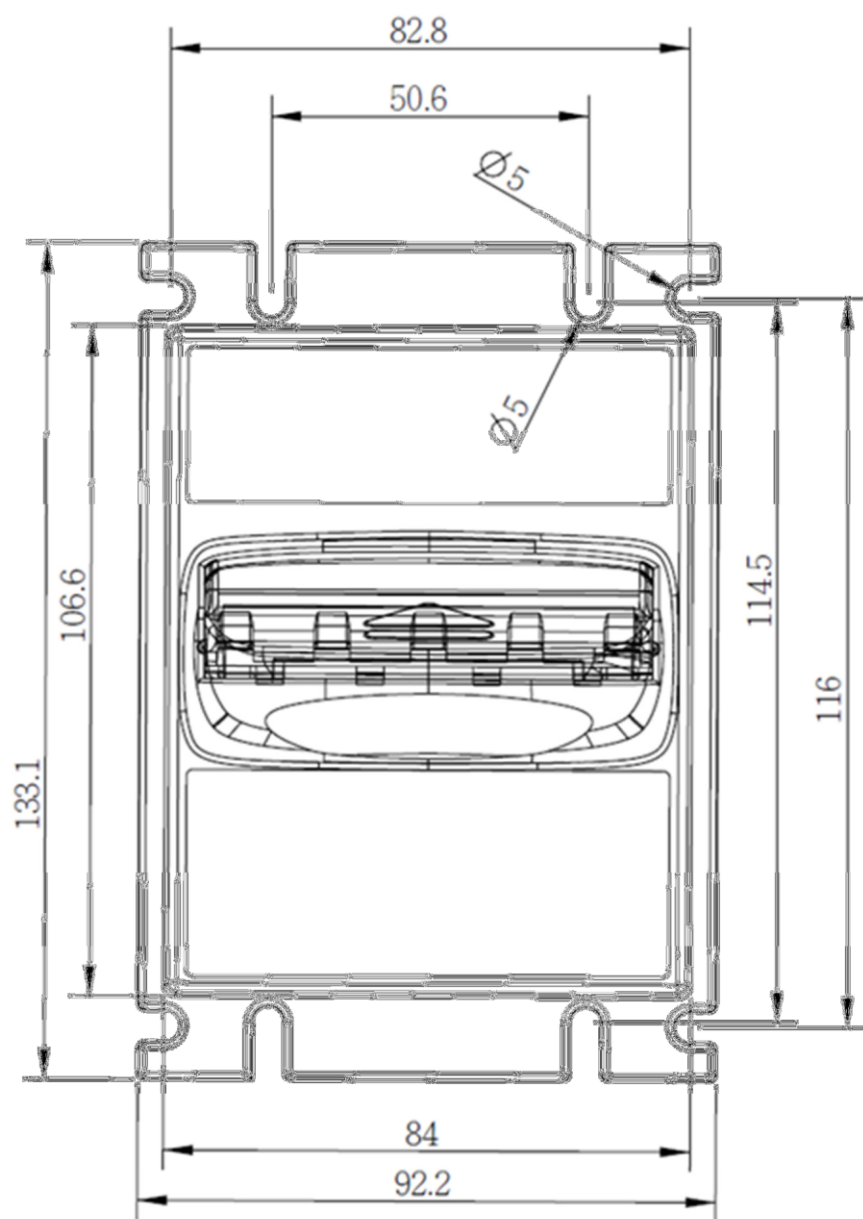


Unit:mm[inch]

4-1. Bezel Application

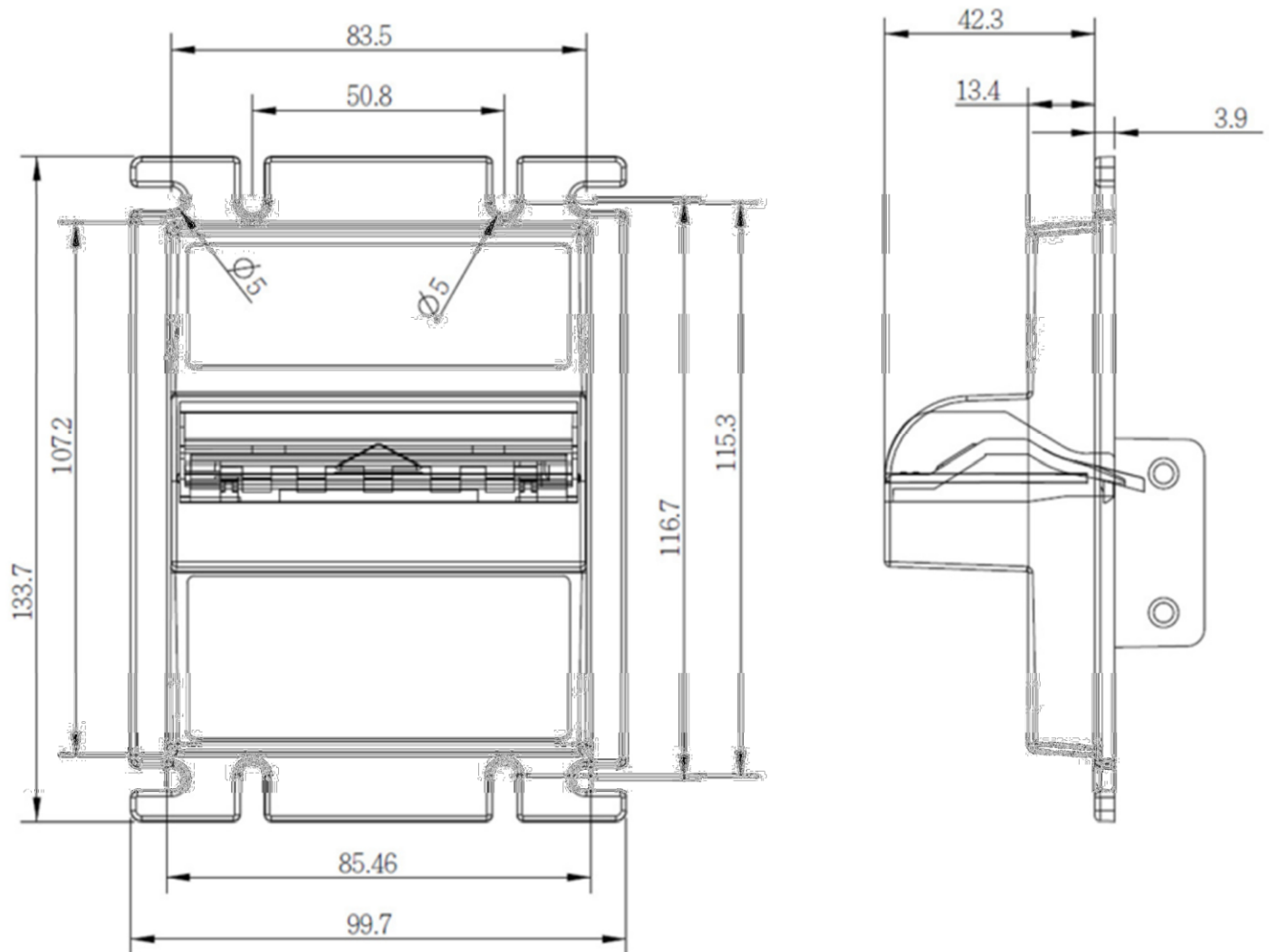
TP70

Bill Accepted Width: 62mm~70mm



TP77

Bill Accepted Width: 66mm~77mm



5.Installation

5-1.Harness Application Bill Acceptor

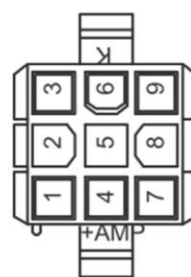
Model	Interface	Used Voltage	Usage	Harness No.	Page
TP70/TP77	Pulse	12V DC	Extension Wire	CU-R961-1	8
			Power&*Data Comm	WEL-R7U02	9
	RS232	12V DC	Extension Wire	CU-R961-1	8
			Power	WEL-R7U02	9
			*Data Comm	WEL-R7U06	10

CU-R961-1

(Pulse, RS232)

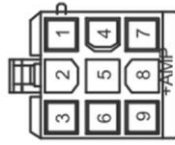


PIN 1- YELLOW.....INHIBIT+
 PIN 2- GREEN.....INHIBIT-
 PIN 5- RED.....+12VDC(POWER-IN)
 PIN 7- BLUE.....CREOIT-RELAY-NO
 PIN 8- PURPLE.....CREDIT-RELAY-COM
 PIN 9- ORANGE.....GND(POWER-IN)



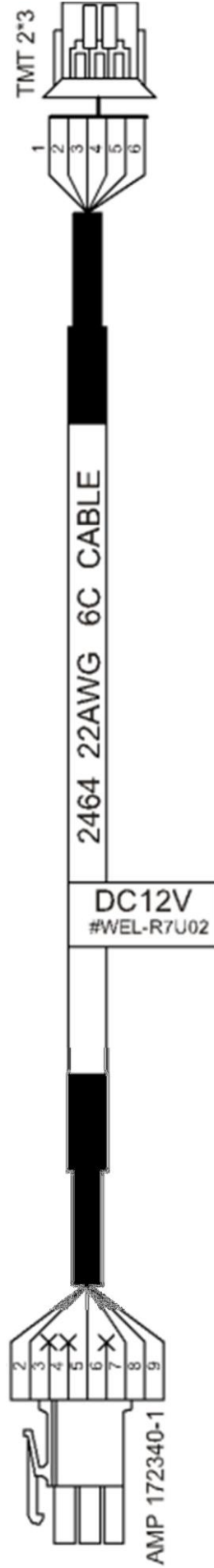
AMP 172332-1 BACK VIEW

WEL-R7U02 (Pulse, RS232)

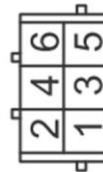


AMP 172340-1
BACK VIEW

PIN 1- YELLOW.....INHIBIT+
 PIN 2- GREEN.....INHIBIT-
 PIN 5- RED.....12VDC HOT (POWER)
 PIN 7- BLUE.....CREDIT RELAY (N.O.)
 PIN 8- PURPLE.....CREDIT RELAY (Common)
 PIN 9- ORANGE.....Ground (Power)



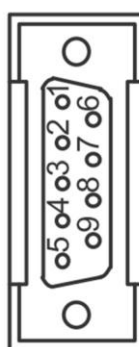
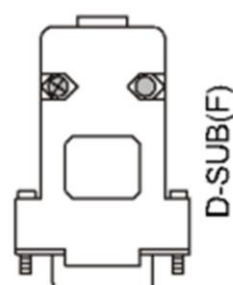
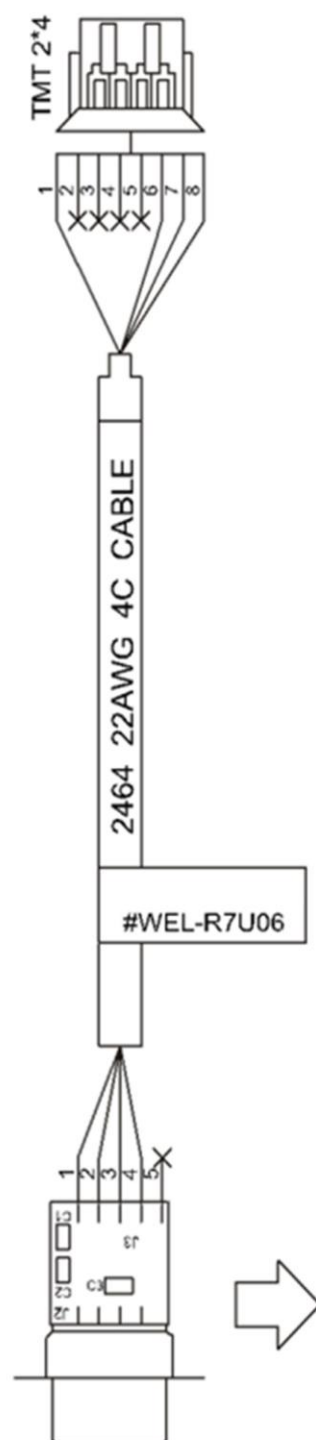
PIN 1- RED.....12VDC HOT (POWER)
 PIN 2- ORANGE.....Ground (Power)
 PIN 3- YELLOW.....INHIBIT+
 PIN 4- GREEN.....INHIBIT-
 PIN 5- BLUE.....CREDIT RELAY (N.O.)
 PIN 6- PURPLE.....CREDIT RELAY (Common)



TMT 2*3 BACK VIEW

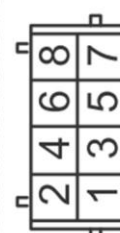
Pin 1- BLUE.....Ground
 Pin 2- WHITE.....Download VCC
 Pin 3- BLACK.....RX1
 Pin 4- PURPLE.....TX1

WEL-R7U06 (RS232)



D-SUB 9F TOP VIEW

Pin 2-TXD
 Pin 3-RXD
 Pin 5-GND

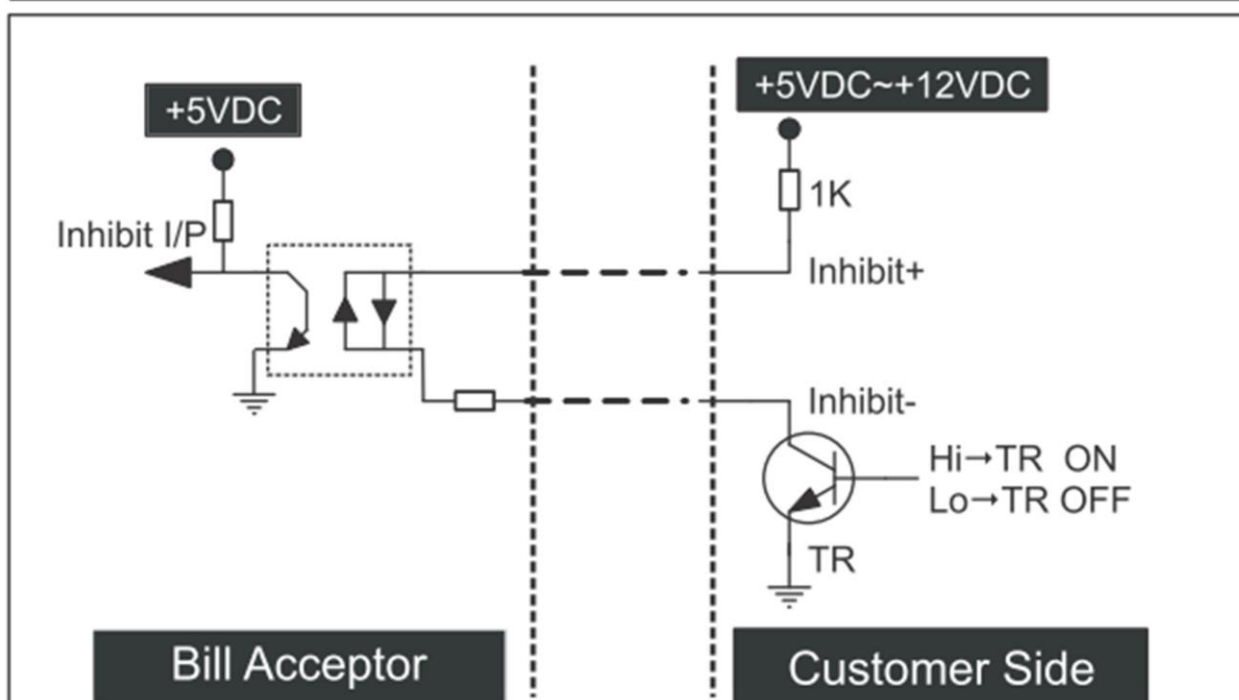
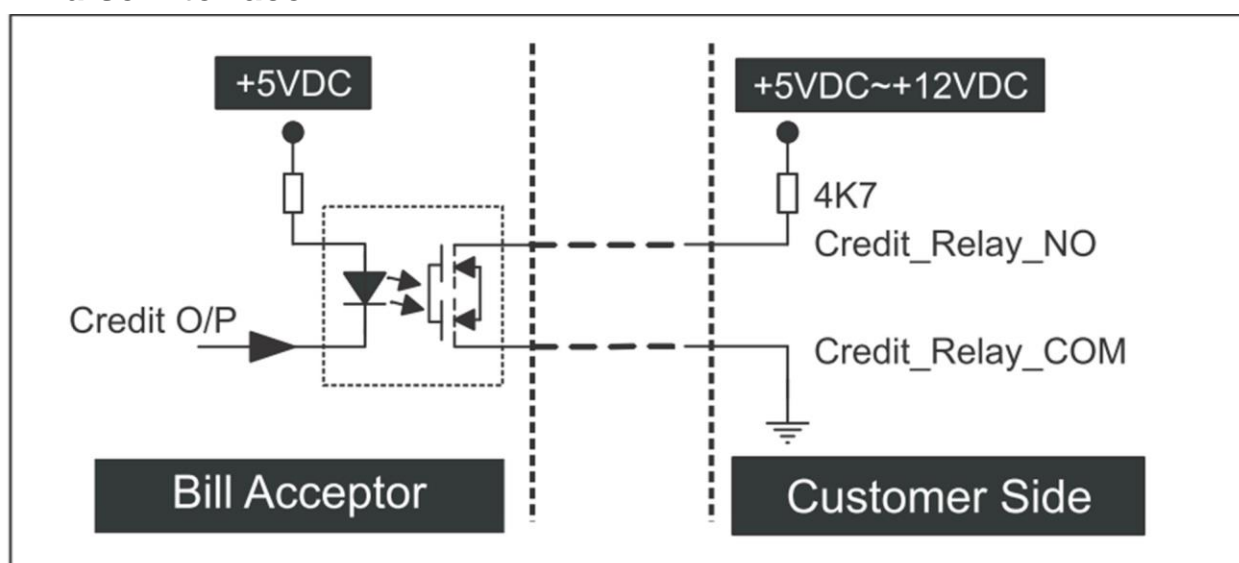


TMT 2*4

BACK VIEW

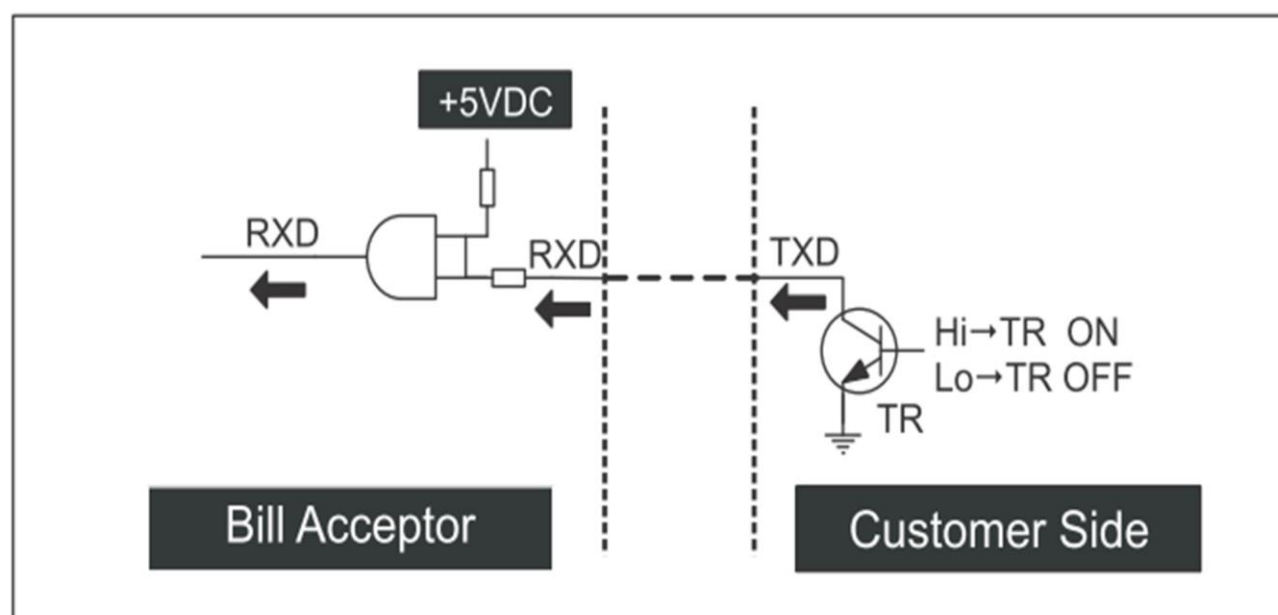
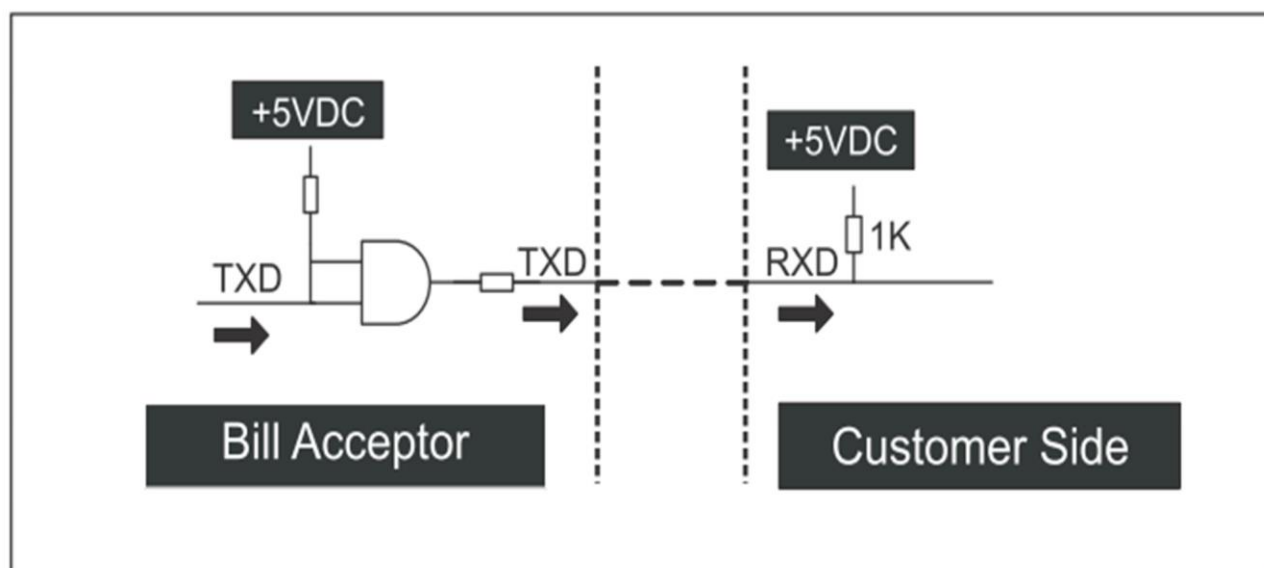
Pin 1- BLUE.....Ground
 Pin 6- WHITE.....Download VCC
 Pin 7- BLACK.....RX1
 Pin 8- PURPLE.....TX1

5-1-1.I/O Circuit Pulse Interface



BA Status	DIP SW Setting		Control Signal
Inhibit	Inhibit Active	Low	Low
		High	High
Enable	Inhibit Active	Low	High
		High	Low

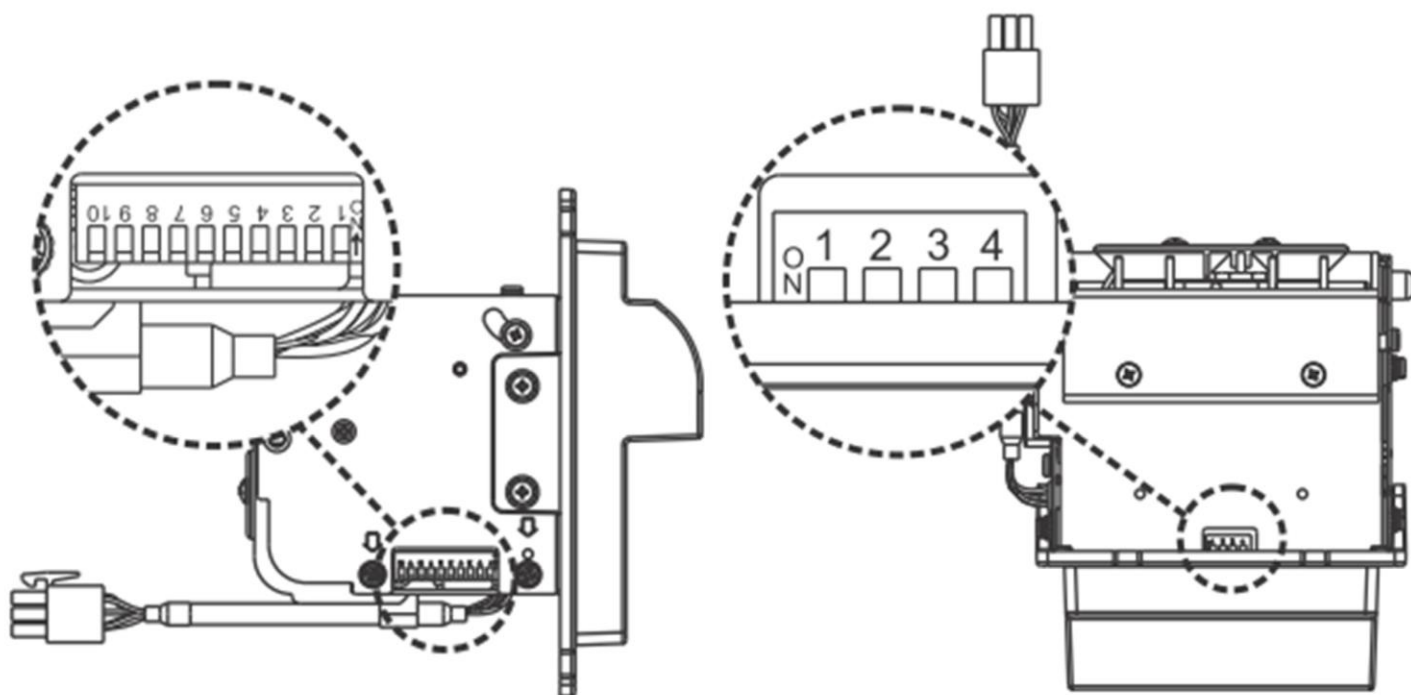
RS232 Interface



5-2. DIP Switch Setting

The serial DIP switches which are located on the side of TP series. According to different currencies and credit output format which are used by user, DIP switch settings could be varied to fit user's needs. Besides, there's also a serial DIP switches at the bottom of TP series for interface settings.

Please refer to "TP series DIP Switch Setting Guide" in the package for more details.

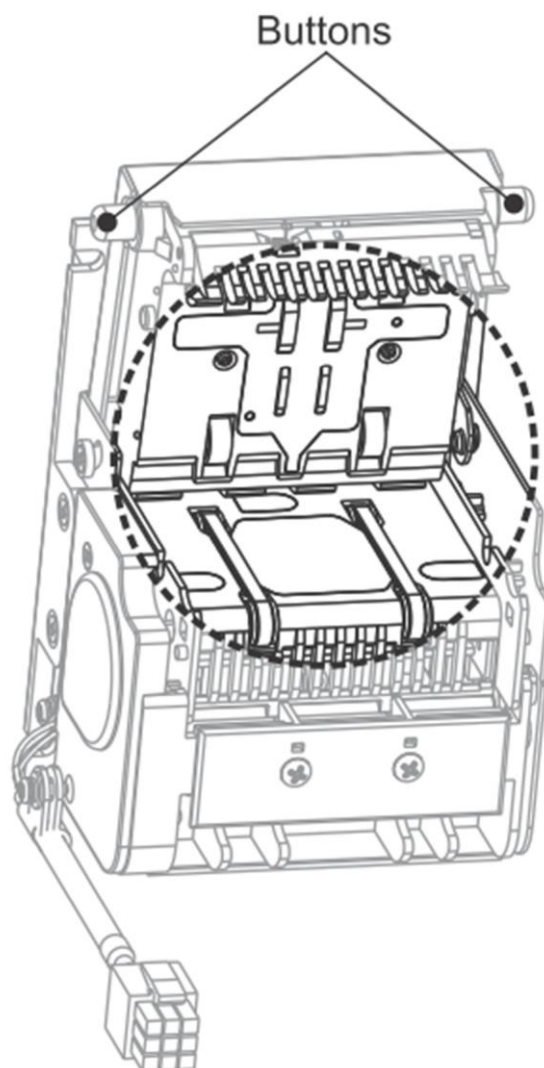



6.Maintenance

Foreign objects on the LED or sensor may cause bill jamming and decrease acceptance rate.To make sure the bill acceptor always works smoothly,please clean the internal parts regularly.

To clean the internal parts :

1. Turn Bill Acceptor off.
2. Open LED Assembly by pushing buttons on both sides.
3. Use a soft, dry cloth or towel to clean the bill path and sensors.



	Maintenance Notice <i>(Any improper maintenance will result invalid warranty.)</i>	
	Recommended	Mild, non-abrasive, soap water.
	DO NOT USE	Organic solvent , Alcohol, Volatile liquid.

7. Troubleshooting

LED Flash	Status	Corrective Actions
1	Bill jammed	Open bill path unit and then remove the jammed bill.
2	Disable	Inspect for right DIP switch setting
3	Recognition sensor module error	Inspect for foreign objects on sensor or bill path and clean
3+1	Purple sensor error	Inspect for foreign objects on sensor or bill path and clean
3+2	Hook sensor error	Inspect for foreign objects on security hook and clean
3+4	Fish sensor error	Inspect for foreign objects on sensor or bill path and clean
4	A stringing attempt has detected	Inspect for foreign objects on sensor or bill path and clean
6	Stacker error or stacker full	Inspect for foreign objects on stacker and clean or wmpy the bill box
7	Motor error	Inspect for foreign objects on bill path and clean